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JUN 07 1990

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United States Government

Department of Energy

Rocky Flats Office

memorandum

DATE: JUN 05 1990

REPLY TO ATTN OF: ERD:SG:6797

SUBJECT: Ground Based Gamma Survey East of the 903 Pad at Rocky Flats (Operable Unit 2)

TO: Jim Barrett, DOE/NVO

This memorandum is to follow up on discussions between EG&G Rocky Flats (RF) and EG&G Energy Measurements (EM). We request a detailed breakdown of technical requirements, costs, and anticipated schedule for ground based gamma survey at an area east of the 903 Pad at the Rocky Flats Plant as an additional investigation to the airborne and ground based gamma surveys performed by EG&G-EM this past summer at Rocky Flats. The objective of the survey is to provide a more detailed map of gamma contamination in the area than is currently available. In addition to the gamma survey, soil samples should be collected at every 5th to 10th sample station to provide in situ data. These samples should be collected concurrently with the gamma survey, but they will be analyzed by laboratories currently under contract with EG&G -RF.

The attached map shows the boundaries of the area to be surveyed. Ideally, the survey should provide 100% coverage of the area. Given time and logistical restrictions, it would be helpful to provide schedule and cost estimates ranging from 100% coverage and maximum sample density to the minimum coverage required to adequately assess the area. We realize that these are estimates only, and it should be understood that some parts of the area of concern may be surveyed in greater detail than other portions, so that estimates of the minimum and maximum coverage will be helpful for planning the actual survey. Cost and schedule estimates should also be included for collecting a maximum of one soil sample per five survey locations and a minimum of one soil sample per 10 survey stations.

It is understood that EG&G-EM requires 2 line-of-site stations for positioning and locating. EG&G-RFwill survey in these stations, but cost and schedule estimates should reflect any additional surveying if needed. Some parts of the survey area may be too steep for the truck mounted detector, and may be required to be surveyed on foot. For a conservative estimate, 10 to 20% of the total area should be considered surveyable by foot only.

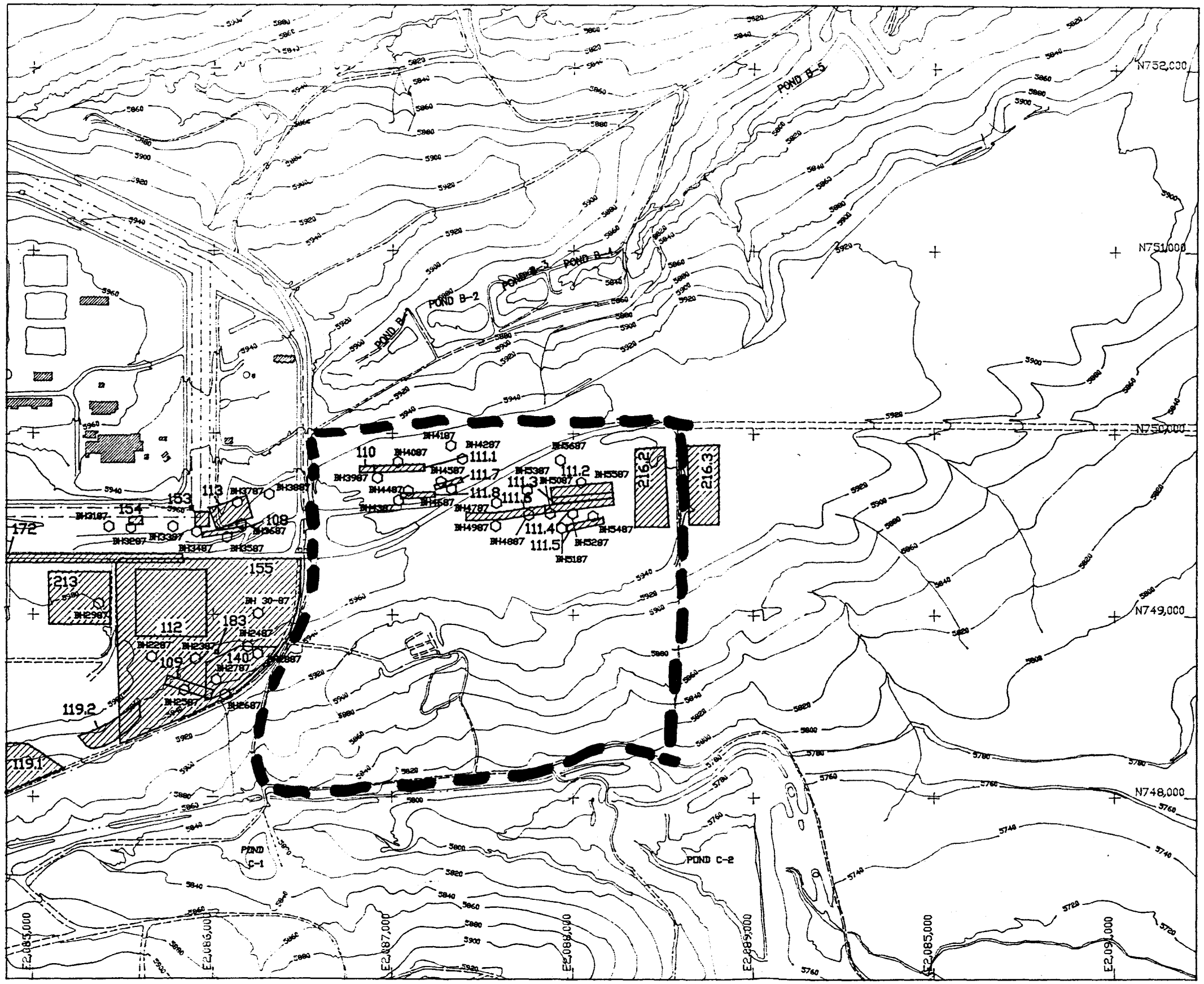
Please feel free to contact me or have your staff contact Scott Grace of my staff at FTS 345-7199, if you have any questions.

David P. Simonson, Acting Assistant Manager
Environmental Management

Attachment

cc w/Attachment:
M. Arndt, EG&G
T. Greengard, EG&G

A-OU02-000936



EXPLANATION

142.1 — SOLID WASTE MANAGEMENT UNIT (SWMU) AND SWMU DESIGNATION

BH4987 — BOREHOLE LOCATION AND IDENTIFICATION

PROPOSED GAMMA SURVEY AREA

N

Scale: 1" = 600'

0' 300' 600'

CONTOUR INTERVAL = 20'

Rocky Flats Plant
Golden, Colorado

IM/IRA OPERABLE UNIT 2

FIGURE 2-6

LOCATIONS OF
SOLID WASTE MANAGEMENT UNITS
AND BOREHOLES

December, 1989

RF600N.MB